

Abstract

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According to the present invention there is provided a porous coal-based to a compare the coal-based to a compare the controlled heating of small coal particulate in a "mold" and under a non-oxidizing atmosphere. The porous product thereby produced, preferably as a near net shape, can be machined, adhered and otherwise fabricated to produce a wide variety of low cost, low density products, or used in its preformed shape as a filter, heat or electrical insulator etc. Such porous products, without further treatment exhibit compressive strengths of up to about 6000 psi. Further treatment by carbonization or graphitization yields products that can be used as electrical or heat conductors. Methods for the production of these coal-based cellular products are also described.

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